Application No.: 10/715,699

Office Action Dated: September 24, 2007

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1. (Currently amended) A method of associating a <u>first</u> processor with a set of computer-readable instructions in a multiprocessor system, comprising:

selecting a first set of computer-readable instructions;

selecting a first cluster from at least two clusters, each cluster having an associated priority indicator indicating the priority of the cluster, where the selected cluster is selected as a function of its priority indicator;

selecting [[a]] the first processor from the cluster, the cluster comprising at least two processors, each processor having an associated priority indicator, where the selected processor is selected as a function of its priority indicator indicating the priority of the processor; and

associating the first processor with the first set of computer-readable instructions.

- 2. (Original) The method as recited in claim 1 wherein the processors comprise CPUs.
- 3. (Original) The method as recited in claim 1 wherein the first set of computerreadable instructions comprise an application program.
- 4. (Original) The method as recited in claim 1 wherein the first set of computerreadable instructions comprise an processing thread.
- 5. (Original) The method as recited in claim 1 wherein the priority indicator associated with each processor is a function of the priority of each selected set of computer-readable instructions associated with the processor.
- 6. (Original) The method as recited in claim 1 wherein the priority indicator for each cluster is a function of the priority of each processor in the cluster.

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7. (Original) The method as recited in claim 5 wherein the priority indicator for each

cluster is a function of the priority of each processor in the cluster.

8. (Original) The method as recited in claim 1 comprising the step of adjusting the

priority of the selected processor based on the priority of the first set of computer-readable

instructions.

9. (Original) The method as recited in claim 8 comprising the steps of selecting a

second set of computer readable instructions and repeating the acts of selecting a cluster and

selecting a processor; and associating the selected processor with the second set of computer-

readable instructions.

10. (Original) The method as recited in claim 1 comprising executing the first set of

computer-readable instructions on the associated processor.

11. (Original) The method as recited in claim 1 wherein a cluster other than the first

cluster is selected if the other cluster has a processor associated with the first set of computer

readable instructions and the other cluster has no processors associated with the first set of

computer-readable instructions.

12. (Original) The method as recited in claim 1 wherein a processor other than the

first processor is selected if the first processor has already been associated with the first set of

computer-readable instructions and the other processor has no association with the first set of

computer-readable instructions.

13. (Currently amended) At least one computer-readable medium [of] having stored

thereon computer executable instruction for associating a first processor with a set of

computer-readable instructions in a multiprocessor system, comprising:

selecting a first set of computer-readable instructions;

selecting a first cluster from at least two clusters, each cluster having an associated

priority indicator indicating the priority of the cluster, where the selected cluster is selected as

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a function of its priority indicator;

selecting [[a]] <u>the</u> first processor from the cluster, the cluster comprising at least two processors, each processor having an associated priority indicator <u>indicating the priority of the processor</u>, where the selected processor is selected as a function of its priority indicator; and

associating the first processor with the first set of computer-readable instructions.

14. (Original) The at least one computer-readable medium as recited in claim 13 wherein the processors comprise CPUs.

15. (Original) The at least one computer-readable medium as recited in claim 13 wherein the first set of computer-readable instructions comprise an application program.

16. (Original) The at least one computer-readable medium as recited in claim 13 wherein the first set of computer-readable instructions comprise an processing thread.

17. (Original) The at least one computer-readable medium as recited in claim 13 wherein the priority indicator associated with each processor is a function of the priority of each selected set of computer-readable instructions associated with the processor.

- 18. (Original) The at least one computer-readable medium as recited in claim 13 wherein the priority indicator for each cluster is a function of the priority of each processor in the cluster.
- 19. (Original) The at least one computer-readable medium as recited in claim 17 wherein the priority indicator for each cluster is a function of the priority of each processor in the cluster.
- 20. (Original) The at least one computer-readable medium as recited in claim 13 comprising the step of adjusting the priority of the selected processor based on the priority of the first set of computer-readable instructions.

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21. (Original) The at least one computer-readable medium as recited in claim 20 comprising the steps of selecting a second set of computer readable instructions and repeating the acts of selecting a cluster and selecting a processor; and associating the selected processor with the second set of computer-readable instructions.

22. (Original) The at least one computer-readable medium as recited in claim 13 comprising executing the first set of computer-readable instructions on the associated processor.

23. (Original) The at least one computer-readable medium as recited in claim 13 wherein a cluster other than the first cluster is selected if the other cluster has a processor associated with the first set of computer readable instructions and the other cluster has no processors associated with the first set of computer-readable instructions.

24. (Original) The at least one computer-readable medium as recited in claim 13 wherein a processor other than the first processor is selected if the first processor has already been associated with the first set of computer-readable instructions and the other processor has no association with the first set of computer-readable instructions.

25. (Currently amended) A <u>multiprocessor</u> system of associating a processor with <u>a plurality of sets of computer readable instructions including</u> a <u>first</u> set of computer-readable instructions in a <u>multiprocessor system</u>, comprising:

a processor;

a computer-readable memory in communication with the processor and bearing having stored thereon computer-readable instructions capable of:

selecting a first set of computer-readable instructions;

selecting a first cluster from at least two clusters, each cluster having an associated priority indicator <u>indicating the priority of the cluster</u>, where the selected cluster is selected as a function of its priority indicator;

selecting a first processor from the cluster, the cluster comprising at least two processors, each processor having an associated priority indicator <u>indicating the priority of</u>

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the processor, where the selected processor is selected as a function of its priority indicator; and

associating the first processor with the first set of computer-readable instructions.

26. (Original) The system as recited in claim 25 wherein the processors comprise CPUs.

- 27. (Original) The system as recited in claim 25 wherein the first set of computerreadable instructions comprise an application program.
- 28. (Original) The system as recited in claim 25 wherein the first set of computer-readable instructions comprise an processing thread.
- 29. (Original) The system as recited in claim 25 wherein the priority indicator associated with each processor is a function of the priority of each selected set of computer-readable instructions associated with the processor.
- 30. (Original) The system as recited in claim 25 wherein the priority indicator for each cluster is a function of the priority of each processor in the cluster.
- 31. (Original) The system as recited in claim 29 wherein the priority indicator for each cluster is a function of the priority of each processor in the cluster.
- 32. (Original) The system as recited in claim 25 comprising the step of adjusting the priority of the selected processor based on the priority of the first set of computer-readable instructions.
- 33. (Original) The system as recited in claim 32 comprising the steps of selecting a second set of computer readable instructions and repeating the acts of selecting a cluster and selecting a processor; and associating the selected processor with the second set of computer-readable instructions.

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34. (Original) The system as recited in claim 25 comprising executing the first set of computer-readable instructions on the associated processor.

35. (Original) The system as recited in claim 25 wherein a cluster other than the first cluster is selected if the other cluster has a processor associated with the first set of computer readable instructions and the other cluster has no processors associated with the first set of computer-readable instructions.

36. (Original) The system as recited in claim 35 wherein a processor other than the first processor is selected if the first processor has already been associated with the first set of computer-readable instructions and the other processor has no association with the first set of computer-readable instructions.